

## **ABSTRACT**

The invention is directed to biodegradable, thermoplastic, phase separated segmented multi-block copolymers. The copolymers of the present invention find use in various biomedical applications as well as in pharmaceutical applications. According to the invention, a biodegradable, phase separated copolymer is provided, comprising segments of a soft prepolymer (A) having a glass transition temperature,  $T_g$ , lower than 37°C; and segments of a hard prepolymer (B) having a phase transition temperature,  $T_m$ , of 40-100°C.